

# EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	101	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:15
L2	124	((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:15
L3	216	((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:16
L4	227	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:16
L5	14	((435/6).C.A.S.) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:16
L6	9	((435/6).C.A.S.) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:16
L7	395	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:16



## EAST Search History

L8	122	((435/6).C.A.S.) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:17
L9	173	((((436/518).C.A.S.) or ((436/524).C.A.S.) or ((436/525).C.A.S.) or ((436/526).C.A.S.) or ((436/527).C.A.S.) or ((436/528).C.A.S.) or ((436/531).C.A.S.)) and grating) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:17
L10	289	((436/518).C.A.S.) or ((436/524).C.A.S.) or ((436/525).C.A.S.) or ((436/526).C.A.S.) or ((436/527).C.A.S.) or ((436/528).C.A.S.) or ((436/531).C.A.S.)) and grating	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:17
L11	24883	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.) or ((359/896).C.A.S.) or ((359/900).C.A.S.) or ((385/147).C.A.S.)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:17
L12	199	(359/34).C.A.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/04/21 10:17
L13	180	(359/570).C.A.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/04/21 10:17
L14	387	(359/577).C.A.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/04/21 10:17
L15	1971	(385/31).C.A.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2006/04/21 10:17
L16	26875	L11 or L12 or L13 or L14 or L15	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:17



## EAST Search History

L17	783	((((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:18
L18	552	((((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) or ((359/896).C.A.S.) or ((359/900).C.A.S.) or ((385/147).C.A.S.)) and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide)))) and ((cut\$4 or cleav\$3 or break\$3 or slic\$3 or split\$4) with fiber)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:19
L19	483	L16 and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide)))) and ((phase or amplitude) near4 mask\$3) and (uv or ultraviolet or ultra?violet or (ultra near3 violet))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:19
L20	570	L16 and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide)))) and ((cut\$4 or cleav\$3 or break\$3 or slic\$3 or split\$4) with fiber)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:19
L21	143	L19 and (drum or cylind\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:19
L22	160	L19 and (drum or cylind\$ or reel or spool\$3)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:19
L23	483	L16 and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide)))) and ((phase or amplitude) near4 mask\$3) and (uv or ultraviolet or ultra?violet or (ultra near3 violet))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 10:20
L24	37	("20020085596"   "20020094146"   "20020122454"   "20020168153"   "20020195611"   "5511083"   "5546481"   "5717804"   "5724377"   "5732170"   "5771250"   "5812716"   "5844927"   "5930430"   "5993073"   "5995692"   "6061172"   "6257772"   "6273620"   "6282351"   "6310997"   "6314220"   "6318908"   "6377742"   "6435734"   "6445858"   "6459710"   "6513993"   "6530698"   "6618405"   "6693304"   "6697414"   "6726376"   "6792008"   "6792012"   "6808316"   "6837627").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2006/04/21 12:34



## EAST Search History

L25	202	16 and ((grating near3 (writ\$4 or record\$4)) with (fiber\$2 or substrate\$2 or base\$2)) and (cut\$4 or split\$4 or divid\$4) and (adhe\$5 or epox\$3 or glu\$3 or bond\$4 or cement\$4)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 14:45
L26	52	16 and ((grating near3 (writ\$4 or record\$4)) with (fiber\$2 or substrate\$2 or base\$2)) with bragg) and (cut\$4 or split\$4 or divid\$4) and wind\$4	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 14:56
L27	36	16 and ((grating near3 (writ\$4 or record\$4)) with (fiber\$2 or substrate\$2 or base\$2)) and (cut\$4 or split\$4 or divid\$4) and wind\$4 and identif\$	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 14:57
L28	36	16 and ((grating near3 (writ\$4 or record\$4)) with (fiber\$2 or substrate\$2 or base\$2)) and (cut\$4 or split\$4 or divid\$4) and wind\$4 and (identif\$ or authentic\$)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 15:03
L29	63	16 and ((grating near3 (writ\$4 or record\$4))) and (cut\$4 or split\$4 or divid\$4) and wind\$4 and (identif\$ or authentic\$)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 15:20
L30	176	((grating near3 (writ\$4 or record\$4))) and (cut\$4 or split\$4 or divid\$4) and wind\$4 and (identif\$ or authentic\$) and (adhe\$5 or epox\$3 or glu\$3 or bond\$4 or cement\$4)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 15:52
L31	138	((grating near3 (writ\$4 or record\$4)) with (fiber\$2 or substrate\$2 or base\$2)) and (cut\$4 or split\$4 or divid\$4) and wind\$4 and (adhe\$5 or epox\$3 or glu\$3 or bond\$4 or cement\$4)	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 16:25
L32	6	((grating near3 (writ\$4 or record\$4)) and (cut\$4 or split\$4 or divid\$4) and wind\$4).clm.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 16:26
L33	9	((grating near3 (writ\$4 or record\$4)) and (cut\$4 or split\$4 or divid\$4) and (adhe\$5 or epox\$3 or glu\$3 or bond\$4 or cement\$4)).clm.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/04/21 16:28



# EAST Search History

S1	30	("4410561"   "4434554"   "4511095"   "4623156"   "4630406"   "4653681"   "4662307"   "4865411"   "4976596"   "5022735"   "5104209"   "5114066"   "5157747"   "5208877"   "5269206"   "5340371"   "5451294"   "5481638"   "5604829"   "5620495"   "5684910"   "5745615"   "5894540"   "5939136"   "5988556"   "6027062"   "6069988"   "6088503"   "6123801"   "6434314").PN.	USPAT	OR	ON	2004/10/04 10:23
S2	21566	((359/2).CCL.S.) or ((359/566).CCL.S.) or ((359/569).CCL.S.) or ((359/558).CCL.S.) or ((359/571).CCL.S.) or ((359/572).CCL.S.) or ((356/72).CCL.S.) or ((356/73.1).CCL.S.) or ((385/12).CCL.S.) or ((385/128).CCL.S.) or ((385/37).CCL.S.) or ((250/559.04).CCL.S.) or ((250/559.11).CCL.S.) or ((250/559.4).CCL.S.) or ((250/227.14).CCL.S.) or ((250/227.29).CCL.S.) or ((250/566).CCL.S.) or ((250/568).CCL.S.) or ((235/473).CCL.S.) or ((435/4).CCL.S.) or ((435/288.7).CCL.S.) or ((359/896).CCL.S.) or ((359/900).CCL.S.) or ((385/147).CCL.S.)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 10:49
S3	19	S2 and kashyap.in.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 10:50
S4	173	(359/34).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/04 11:01
S5	165	(359/570).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/04 11:01
S6	308	(359/577).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/04 11:01
S7	1547	(385/31).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/04 11:01
S8	23185	S2 or S4 or S5 or S6 or S7	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 11:02
S9	459	S8 and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((cut\$4 or cleav\$3 or break\$3 or slic\$3 or split\$4) with fiber)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 11:14



## EAST Search History

S10	362	S8 and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((phase or amplitude) near4 mask\$3) and (uv or ultraviolet or ultra?violet or (ultra near3 violet))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 12:58
S11	112	S10 and (drum or cylind\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 11:16
S12	125	S10 and (drum or cylind\$ or reel or spool\$3)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 11:21
S13	2	("5912999").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/04 11:21
S14	2	("6174648").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/04 12:37
S15	20	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((phase or amplitude) near4 mask\$3) and (uv or ultraviolet or ultra?violet or (ultra near3 violet)) and (drum or cylind\$ or reel or spool\$3) and (strip\$ near4 (buffer or coating))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 13:21
S16	146	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((phase or amplitude) near4 mask\$3) and (uv or ultraviolet or ultra?violet or (ultra near3 violet)) and (drum or cylind\$ or reel or spool\$3) and (photosensitiv\$ or photo?sensitiv\$ or (photo near3 sensitiv\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 13:44
S17	5	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((phase or amplitude) near4 mask\$3) and (wind\$3 with (drum or cylind\$ or reel or spool\$3)) and (photosensitiv\$ or photo?sensitiv\$ or (photo near3 sensitiv\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 13:48
S18	8	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((phase or amplitude) near4 mask\$3) and (wind\$3 with (drum or cylind\$ or reel or spool\$3))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 13:50
S19	2	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((wrap\$4 or wind\$3) same (bind\$3 or adhe\$ or epox\$ or glu\$3 or bound or attached\$3) same sheet same (resin or polymer or plastic))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 13:53



## EAST Search History

S20	132	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((wrap\$4 or wind\$3) same (bind\$3 or adhe\$ or epox\$ or glu\$3 or bound or attached\$3))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 14:33
S21	218	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((bind\$3 or adhe\$ or epox\$ or glu\$3 or bound or attached\$3) with (plural\$3 or multiple or group\$3))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 15:05
S22	169	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((expos\$ or writ\$3 or record\$3) with simultaneous\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 15:26
S23	354	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((cut\$4 or slic\$3 or dic\$3 or split\$4 or cleav\$3 or break\$3) with (bead or particle or element))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:35
S24	28	S23 and ((bond\$3 or adhe\$ or epox\$ or glu\$3) with (dissolv\$3 or etch\$3))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 15:30
S25	66	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((bond\$3 or adhe\$ or epox\$ or glu\$3) with (dissolv\$3 or etch\$3))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:35



# EAST Search History

526	215	(US-6785433-\$ or US-6751387-\$ or US-6694067-\$ or US-6591054-\$ or US-6586193-\$ or US-6579673-\$ or US-6542673-\$ or US-6506342-\$ or US-6483096-\$ or US-6469785-\$ or US-6437345-\$ or US-6436651-\$ or US-6434298-\$ or US-6399295-\$ or US-6395558-\$ or US-6365907-\$ or US-6352828-\$ or US-6350413-\$ or US-6346376-\$ or US-6317528-\$ or US-6314220-\$ or US-6312961-\$ or US-6292282-\$ or US-6289144-\$ or US-6280935-\$ or US-6268222-\$).did. or (US-6251691-\$ or US-6235475-\$ or US-6221579-\$ or US-6214560-\$ or US-6172218-\$ or US-6172214-\$ or US-6150516-\$ or US-6096496-\$ or US-6093536-\$ or US-6087655-\$ or US-6087186-\$ or US-6078705-\$ or US-6060256-\$ or US-6036807-\$ or US-6035082-\$ or US-6005691-\$ or US-5994150-\$ or US-5989923-\$ or US-5961924-\$ or US-5925878-\$ or US-5922550-\$ or US-5903340-\$ or US-5846719-\$ or US-5841555-\$ or US-5832165-\$ or US-5822472-\$ or US-5814565-\$).did. or (US-5793485-\$ or US-5784157-\$ or US-5780231-\$ or US-5770455-\$ or US-5745615-\$ or US-5742432-\$ or US-5729365-\$ or US-5671308-\$ or US-5646400-\$ or US-5627663-\$ or US-5608519-\$ or US-5565324-\$ or US-5506674-\$ or US-5478527-\$ or US-5455178-\$ or US-5446534-\$ or US-5442433-\$ or US-5394234-\$ or US-5374816-\$ or US-5352582-\$ or US-5300764-\$ or US-5291027-\$ or US-5210404-\$ or US-5172250-\$ or US-5156810-\$ or US-5118608-\$ or US-5113286-\$).did. or (US-5100238-\$ or US-5089387-\$ or US-5082629-\$ or US-5081012-\$ or US-5071248-\$ or US-5066133-\$ or US-RE33581-\$ or US-5003600-\$ or US-4931384-\$ or US-4892385-\$ or US-4880752-\$ or US-4876208-\$ or US-4815843-\$ or US-4767719-\$ or US-4647544-\$ or US-4576439-\$ or US-4568141-\$ or US-4023010-\$ or US-4011435-\$ or US-5846839-\$ or US-6272886-\$ or US-6741773-\$ or US-6665483-\$ or US-6577792-\$ or US-6532327-\$ or US-6088503-\$ or US-5104209-\$).did. or (US-6442305-\$ or US-5572609-\$ or US-5400422-\$ or US-6284437-\$ or US-5912999-\$ or US-6728444-\$ or US-6404956-\$ or US-6344298-\$ or US-6084998-\$ or US-6442312-\$ or US-6067392-\$ or US-6174648-\$ or US-5999671-\$ or US-6529658-\$ or US-5600665-\$).did. or (US-20040181344-\$ or US-20040175843-\$ or US-20040179267-\$ or US-20040179266-\$ or US-20040175842-\$ or US-20040132205-\$ or US-20040151626-\$ or US-20040132214-\$ or US-20040145752-\$ or US-20040130786-\$ or US-20040132172-\$ or US-20040130761-\$ or US-20040126875-\$ or US-20040130760-\$ or US-20030142704-\$ or US-20030138207-\$ or US-20030133640-\$ or US-20030132406-\$ or US-20030129654-\$ or US-20030124599-\$ or US-20030113766-\$ or US-20030104390-\$ or US-20030092075-\$ or US-20030082587-\$ or US-20030077660-\$ or US-20040125424-\$).did. or (US-20040053295-\$ or US-20040075907-\$ or US-20040063146-\$ or US-20030068657-\$ or US-20030059855-\$ or US-20030049620-\$ or US-20030032039-\$ or US-20030027328-\$ or US-20030027327-\$ or US-20030026891-\$ or US-20040038307-\$ or US-20040046128-\$ or US-20030231818-\$ or US-20030219205-\$ or US-20040021945-\$ or US-20040022475-\$ or US-20030017581-\$ or US-20030017580-\$ or US-20020196994-\$ or US-20020192680-\$ or US-20030207258-\$ or US-20030207257-\$ or US-20030207255-\$ or US-20030207256-\$ or US-20030207328-\$ or US-20030207254-\$ or US-20030215185-\$).did. or (US-20020191913-\$ or US-20020168295-\$ or US-20020155507-\$ or US-20020141702-\$ or US-20020127565-\$ or US-20020104762-\$ or US-20020090613-\$ or US-20020076154-\$ or US-20020041724-\$ or US-20020041723-\$ or US-20020034457-\$ or US-20020028451-\$ or US-20030162296-\$ or US-20030207253-\$ or US-20030157731-\$ or US-20030142713-\$ or US-20030148542-\$ or US-20020025534-\$ or US-20020022273-\$ or US-20010031503-\$ or US-20010004526-\$ or US-20040052457-\$ or US-20030186142-\$ or US-20030180000-\$ or US-20030133659-\$ or US-20030039440-\$ or US-20030007732-\$).did. or (US-20020172461-\$ or US-20020168153-\$ or US-20020164121-\$ or US-20020150334-\$ or US-20040161198-\$ or US-20020122628-\$ or US-20030124438-\$ or US-20020009274-\$ or US-20040018022-\$ or US-20030059195-\$).did. or (WO-9636436-\$ or WO-9715690-\$).did. or (US-20020127565-\$).did.	US-P6PUB; USPAT; EPO; DERWENT	OR	OFF	2004/10/04 17:09
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## EAST Search History

S27	25	S26 and (colocat\$ or co?locat\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:10
S28	85	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and (colocat\$ or co?locat\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:14
S29	28	((bragg near3 grating) same (colocat\$ or co?locat\$)) and (optic\$4 near3 (fiber or waveguide))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:16
S30	28	((bragg near3 grating) same (colocat\$ or co?locat\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:16
S31	155	(bragg near3 grating) same (superpos\$ or superimpos\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:16
S32	141	(bragg near3 grating) same (superpos\$ or superimpos\$) and (optic\$4 near3 (fiber or waveguide))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:17
S33	28	((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((bond\$3 or adhe\$ or epox\$ or glu\$3) with (bragg near3 grating) with (substrate or sheet))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:40
S34	35	((bond\$3 or adhe\$ or epox\$ or glu\$3) with (bragg near3 grating) with (substrate or sheet))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:42
S35	22	((bond\$3 or adhe\$ or epox\$ or glu\$3) with (bragg near3 grating) with (plastic or polymer or resin))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:44
S36	373	(bond\$3 or adhe\$ or epox\$ or glu\$3) with ((fiber or bragg) near3 grating)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:44



## EAST Search History

S37	122	S36 same (polymer or resin or plastic or substrate)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 17:49
S38	3	("6600149").PN	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/04 17:49
S39	232	(359/2).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S40	903	(359/566).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S41	676	(359/569).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S42	325	(359/558).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S43	278	(359/571).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S44	330	(359/572).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06
S45	658	(356/72).CCL.S.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:06



## EAST Search History

S46	1888	(356/73.1).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S47	1385	(385/12).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S48	820	(385/128).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S49	2621	(385/37).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S50	72	(250/559.04).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S51	55	(250/559.11).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S52	680	(250/559.4).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S53	629	(250/227.14).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:07
S54	152	(250/227.29).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08



## EAST Search History

S55	669	(250/566).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S56	329	(250/568).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S57	203	(235/473).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S58	5177	(435/4).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S59	922	(435/288.7).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:08
S60	710	(((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 11:35
S61	575	(((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 11:35
S62	2	("5.089,387").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/26 19:53



# EAST Search History

S63	298	(((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 11:37
S64	29	("4539507"   "4833092"   "5034613"   "5136572"   "5141671"   "5214409"   "5252962"   "5257011"   "5266926"   "5351052"   "5405709"   "5409783"   "5434878"   "5438878"   "5448582"   "5503805"   "5558904"   "5565324"   "5604097"   "5641634"   "5751629"   "5770358"   "5770455"   "5840485"   "5874214"   "5903340"   "5981180"   "6043023"   "6096494").PN.	USPAT	OR	ON	2004/09/27 11:23
S65	26495	(435/6).C.A.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/27 11:34
S66	168	(((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 11:58
S67	76	(((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:03
S68	154	((435/6).C.A.S.) and (((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:12
S69	0	WO-02061429-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:12
S70	0	WO-0261429-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:12



# EAST Search History

S71	0	WO-2002061429-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:12
S72	1	WO-200261429-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 12:17
S73	2	("20020127565").PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/27 12:18
S74	19	("4539507"   "4833092"   "5034613"   "5136572"   "5141671"   "5214409"   "5252962"   "5257011"   "5266926"   "5351052"   "5405709"   "5409783"   "5438878"   "5448582"   "5558904"   "5565324"   "5641634"   "5751629"   "5770455").PN.	USPAT	OR	ON	2004/09/27 13:28
S75	85	((435/6).CCL.S.) and (((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 14:28
S76	9	((435/6).CCL.S.) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identifi\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 13:34
S77	6	((435/6).CCL.S.) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identifi\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 14:02
S78	77	((435/6).CCL.S.) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identifi\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 14:02
S79	333	(particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead)) and (tag\$4 or label\$4 or cod\$3 or encod\$3) and (bragg near3 (grating or mirror or reflect\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 17:04
S80	234	((particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead)) and (tag\$4 or label\$4 or cod\$3 or encod\$3) and (bragg near3 (grating or mirror or reflect\$))) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 14:29



## EAST Search History

S81	241	(particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead)) and (tag\$4 or label\$4 or cod\$3 or encod\$3) and (grating with (refract\$ near3 ind\$4))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 17:31
S82	66	(particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead)) and (tag\$4 or label\$4 or cod\$3 or encod\$3) and (grating with (refract\$ near3 ind\$4) with (vary\$3 or varia\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 17:07
S83	150	(particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead)) and (tag\$4 or label\$4 or cod\$3 or encod\$3) and (grating near3 refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 17:49
S84	2	((fiber or bragg or phase ) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 17:52
S85	32	grating with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:13
S86	539	grating with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4) with (substrate or film or layer)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:14
S87	61	((bragg or phase or fiber) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4) with (substrate or film or layer)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:22
S88	343	((bragg or phase or fiber) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4)) and combinat\$	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:23
S89	2	((bragg or phase or fiber) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4)) and combinat\$) and (refract\$ near3 ind\$4) and assay	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:23
S90	2	((bragg or phase or fiber) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4)) and combinat\$) and assay	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:23



## EAST Search History

S91	2	((bragg or phase or fiber) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4)) and assay\$3	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:24
S92	5	((bragg or phase or fiber or hologra\$) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4)) and assay\$3	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:25
S93	9	((bragg or phase or fiber or hologra\$) near3 grating) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$)) and assay\$3	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/27 18:29
S94	93	((bragg or phase or fiber or hologra\$) near3 grating) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 09:03
S95	37374	((bragg or phase or fiber or hologra\$) near3 grating) or ((vary\$ or varia\$) with refract\$ with ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 12:27
S96	4343	((bragg or phase or fiber or hologra\$) near3 grating) or ((vary\$ or varia\$) with refract\$ with ind\$4)) and ((particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:10
S97	344	((bragg or phase or fiber or hologra\$) near3 grating) or ((vary\$ or varia\$) with refract\$ with ind\$4)) and ((particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$))) and (assay\$3 or combinator\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:11
S98	22407	((bragg or phase or fiber or hologra\$ or volume) near3 grating) or (period\$ with refract\$ with ind\$4 with grating)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:10
S99	2786	((bragg or phase or fiber or hologra\$ or volume) near3 grating) or (period\$ with refract\$ with ind\$4 with grating)) and ((particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:11
S100	249	((bragg or phase or fiber or hologra\$ or volume) near3 grating) or (period\$ with refract\$ with ind\$4 with grating)) and ((particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film) with (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$))) and (assay\$3 or combinator\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:12



## EAST Search History

S101	167547	(index\$ or address\$) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:22
S102	6664	((index\$ or address\$) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film)) same grating	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:22
S103	140	((index\$ or address\$) with (particle or bead or microparticle or microbead or micro?particle or micro?bead or (micro near3 particle) or (micro near3 bead) or fiber or substrate or layer or film)) same grating and (refract\$ near3 ind\$4) and (assay or combinator\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 11:40
S104	1	("re37473").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 11:41
S105	1	("re37891").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 11:41
S106	1	("re33581").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 11:42
S107	76	((("3968476") or ("4011435") or ("4023010") or ("4053228") or ("4131337") or ("4386274") or ("4445229") or ("4560881") or ("4562157") or ("4647544") or ("4678752") or ("4685480") or ("4740688") or ("4748110") or ("4767719") or ("4816659") or ("4841140") or ("4877747") or ("4880752") or ("4882288") or ("4921805") or ("4931384") or ("4958376") or ("4992385") or ("5003600") or ("5033826") or ("5067155") or ("5081012") or ("5089387") or ("5095194") or ("5100238") or ("5115121") or ("5118608") or ("5138468") or ("5141848") or ("5144461") or ("5166813"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 11:59
S108	97	((("5196350") or ("5200794") or ("5291006") or ("5291027") or ("5300764") or ("5310686") or ("5349442") or ("5352582") or ("5364797") or ("5374816") or ("5374818") or ("5394234") or ("5442433") or ("5448659") or ("5461528") or ("5461475") or ("5465176") or ("5468649") or ("5506674") or ("5514785") or ("5528045") or ("5547849") or ("5585639") or ("5607188") or ("5621515") or ("5627040") or ("5627663") or ("5633724") or ("5663790") or ("5667976") or ("5721912") or ("5721435") or ("5729365") or ("5736330") or ("5742432") or ("5759778") or ("5760961") or ("5766956") or ("5793502") or ("5798273") or ("5799231") or ("5801857") or ("5804384") or ("5822472") or ("5824478") or ("5824557") or ("5831698") or ("5837475") or ("5841555"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:18



# EAST Search History

S109	4	((("5451528") or ("5712912"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:19
S110	96	((("5846737") or ("5874187") or ("5895750") or ("5922550") or ("5925562") or ("5925878") or ("5945679") or ("5986838") or ("5989923") or ("5998796") or ("6001510") or ("6017754") or ("6025129") or ("6025283") or ("6036807") or ("6043880") or ("6046925") or ("6049727") or ("6057107") or ("6060256") or ("6067167") or ("6067392") or ("6078048") or ("6087186") or ("6096496") or ("6097485") or ("6103535") or ("6118127") or ("6160240") or ("6160656") or ("6164548") or ("6165592") or ("6165648") or ("6194563") or ("6218194") or ("6221579") or ("6229635") or ("6259450") or ("6268128") or ("6284459") or ("6292282") or ("6292319") or ("6301047") or ("6304263") or ("6306587") or ("6309601") or ("6312961") or ("6313771") or ("6314220") or ("6319668"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:22
S111	72	((("6322932") or ("6329963") or ("6331273") or ("6352854") or ("6355198") or ("6371370") or ("6372428") or ("6399295") or ("6406841") or ("6406848") or ("6416714") or ("6417010") or ("6428707") or ("6428957") or ("6433849") or ("6436651") or ("6489606") or ("6496287") or ("6506342") or ("6515753") or ("6522406") or ("6524793") or ("6533183") or ("6560017") or ("6565770") or ("6592036") or ("6594421") or ("6609728") or ("6613581") or ("6618342") or ("6622916") or ("6628439") or ("6632655") or ("6635470") or ("6678429") or ("6689316") or ("6692912"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:48
S112	12	((("20020090650") or ("20030129654") or ("20020022273") or ("20030138208") or ("20030032203") or ("20030021003"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:52
S113	4	((("5671308") or ("6340588"))).PN.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:52
S114	4262	(436/518).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:59
S115	742	(436/524).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:58
S116	524	(436/525).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:58



## EAST Search History

S117	627	(436/526).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:58
S118	786	(436/527).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:58
S119	940	(436/528).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:59
S120	1346	(436/531).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2004/09/28 12:59
S121	6123	((436/518).CCL.S.) or ((436/524).CCL.S.) or ((436/525).CCL.S.) or ((436/526).CCL.S.) or ((436/527).CCL.S.) or ((436/528).CCL.S.) or ((436/531).CCL.S.)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 12:59
S122	144	((((436/518).CCL.S.) or ((436/524).CCL.S.) or ((436/525).CCL.S.) or ((436/526).CCL.S.) or ((436/527).CCL.S.) or ((436/528).CCL.S.) or ((436/531).CCL.S.)) and grating) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 13:00
S123	226	((((436/518).CCL.S.) or ((436/524).CCL.S.) or ((436/525).CCL.S.) or ((436/526).CCL.S.) or ((436/527).CCL.S.) or ((436/528).CCL.S.) or ((436/531).CCL.S.)) and grating	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 13:49
S124	442	(modulat\$ with refract\$ with ind\$4 with grating) and (embed\$ or encod\$3 or cod\$3 or tag\$4 or label\$4 or identif\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/28 13:51
S125	34	(modulat\$ with refract\$ with ind\$4 with grating) and (assay\$3 or combinator\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 09:49
S126	2	WO-9636436-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 09:58



# EAST Search History

S127	120	(LED or (light near3 emi\$5 near3 diode)) same bragg same (refract\$ near3 ind\$4).	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 09:59
S128	18	((US-6785433-\$ or US-5089387-\$ or US-6751387-\$ or US-6694067-\$ or US-6542673-\$ or US-6506342-\$ or US-6096496-\$ or US-6483096-\$ or US-6436651-\$ or US-6434298-\$ or US-6399295-\$ or US-6395558-\$ or US-6350413-\$ or US-6317528-\$ or US-6312961-\$ or US-6289144-\$ or US-6078705-\$ or US-6035082-\$ or US-6005691-\$ or US-5994150-\$ or US-5961924-\$ or US-5832165-\$ or US-5822472-\$ or US-5814565-\$ or US-5745615-\$ or US-5646400-\$). did. or (US-5455178-\$ or US-5446534-\$ or US-5210404-\$ or US-5172250-\$ or US-5113286-\$ or US-5082629-\$ or US-4892385-\$ or US-4815843-\$ or US-4767719-\$ or US-4576439-\$ or US-6591054-\$ or US-5903340-\$ or US-5770455-\$ or US-5565324-\$ or US-6365907-\$ or US-5841555-\$ or US-5627663-\$ or US-5066133-\$ or US-4568141-\$ or US-6586193-\$ or US-6579673-\$ or US-6352828-\$ or US-6280935-\$ or US-6268222-\$ or US-6251691-\$ or US-6235475-\$ or US-6214560-\$). did. or (US-6172218-\$ or US-6172214-\$ or US-6150516-\$ or US-5846719-\$ or US-5352582-\$ or US-5780231-\$ or US-6469785-\$ or US-6087655-\$ or US-5793485-\$ or US-5784157-\$ or US-5608519-\$ or US-5071248-\$ or US-4876208-\$ or US-6093536-\$ or US-5100238-\$ or US-4647544-\$ or US-6437345-\$ or US-5922550-\$ or US-RE33581-\$ or US-5118608-\$ or US-5081012-\$ or US-5003600-\$ or US-4931384-\$ or US-4880752-\$ or US-4023010-\$ or US-4011435-\$ or US-5742432-\$). did. or (US-5729365-\$ or US-5506674-\$ or US-5442433-\$ or US-5394234-\$ or US-5374816-\$ or US-5300764-\$ or US-5291027-\$ or US-6314220-\$ or US-6292282-\$ or US-6221579-\$ or US-6087186-\$ or US-6060256-\$ or US-6036807-\$ or US-5925878-\$ or US-5671308-\$ or US-6346376-\$ or US-5989923-\$ or US-5478527-\$ or US-5156810-\$). did. or (US-20040179267-\$ or US-20040179266-\$ or US-20040132172-\$ or US-20040130786-\$ or US-20040130761-\$ or US-20040125424-\$ or US-20040075907-\$ or US-20040022475-\$ or US-20030231818-\$ or US-20030215185-\$ or US-20030138207-\$ or US-20030133640-\$ or US-20020141702-\$ or US-20020076154-\$ or US-20020041724-\$ or US-20020041723-\$ or US-20040130760-\$ or US-20040021945-\$ or US-20030219205-\$ or US-20020196994-\$ or US-20020191913-\$ or US-20040181344-\$ or US-20020127565-\$ or US-20040126875-\$ or US-20040038307-\$ or US-20030207258-\$). did. or (US-20030207257-\$ or US-20030207255-\$ or US-20030207254-\$ or US-20030207253-\$ or US-20030113766-\$ or US-20030104390-\$ or US-20030059855-\$ or US-20030032039-\$ or US-20030027328-\$ or US-20030027327-\$ or US-20030017581-\$ or US-20020028451-\$ or US-20010004526-\$ or US-20030049620-\$ or US-20020155507-\$ or US-20040151626-\$ or US-20040132214-\$ or US-20040132205-\$ or US-20030092075-\$ or US-20030026891-\$ or US-20030017580-\$ or US-20020192680-\$ or US-20020168295-\$ or US-20020025534-\$ or US-20040145752-\$ or US-20030068657-\$ or US-20030124599-\$). did. or (US-20040175843-\$ or US-20040175842-\$ or US-20030129654-\$ or US-20030077660-\$ or US-20030162296-\$ or US-20030142713-\$ or US-20030142704-\$ or US-20040053295-\$ or US-20040046128-\$ or US-20030207328-\$ or US-20030157731-\$ or US-20030148542-\$ or US-20030132406-\$ or US-20030082587-\$ or US-20020104762-\$ or US-20020090613-\$ or US-20040063146-\$ or US-20030207256-\$ or US-20020034457-\$ or US-20020022273-\$ or US-20010031503-\$). did. or (WO-9636436-\$). did. or (US-20020127565-\$). did.) and (magnet\$ same (orient\$ or align\$))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 12:15



# EAST Search History

S129	60	<p>((US-6785433-\$ or US-5089387-\$ or US-6751387-\$ or US-6694067-\$ or US-6542673-\$ or US-6506342-\$ or US-6096496-\$ or US-6483096-\$ or US-6436651-\$ or US-6434298-\$ or US-6399295-\$ or US-6395558-\$ or US-6350413-\$ or US-6317528-\$ or US-6312961-\$ or US-6289144-\$ or US-6078705-\$ or US-6035082-\$ or US-6005691-\$ or US-5994150-\$ or US-5961924-\$ or US-5832165-\$ or US-5822472-\$ or US-5814565-\$ or US-5745615-\$ or US-5646400-\$).did. or (US-5455178-\$ or US-5446534-\$ or US-5210404-\$ or US-5172250-\$ or US-5113286-\$ or US-5082629-\$ or US-4892385-\$ or US-4815843-\$ or US-4767719-\$ or US-4576439-\$ or US-6591054-\$ or US-5903340-\$ or US-5770455-\$ or US-5565324-\$ or US-6365907-\$ or US-5841555-\$ or US-5627663-\$ or US-5066133-\$ or US-4568141-\$ or US-6586193-\$ or US-6579673-\$ or US-6352828-\$ or US-6280935-\$ or US-6268222-\$ or US-6251691-\$ or US-6235475-\$ or US-6214560-\$).did. or (US-6172218-\$ or US-6172214-\$ or US-6150516-\$ or US-5846719-\$ or US-5352582-\$ or US-5780231-\$ or US-6469785-\$ or US-6087655-\$ or US-5793485-\$ or US-5784157-\$ or US-5608519-\$ or US-5071248-\$ or US-4876208-\$ or US-6093536-\$ or US-5100238-\$ or US-4647544-\$ or US-6437345-\$ or US-5922550-\$ or US-RE33581-\$ or US-5118608-\$ or US-5081012-\$ or US-5003600-\$ or US-4931384-\$ or US-4880752-\$ or US-4023010-\$ or US-4011435-\$ or US-5742432-\$).did. or (US-5729365-\$ or US-5506674-\$ or US-5442433-\$ or US-5394234-\$ or US-5374816-\$ or US-5300764-\$ or US-5291027-\$ or US-6314220-\$ or US-6292282-\$ or US-6221579-\$ or US-6087186-\$ or US-6060256-\$ or US-6036807-\$ or US-5925878-\$ or US-5671308-\$ or US-6346376-\$ or US-5989923-\$ or US-5478527-\$ or US-5156810-\$).did. or (US-20040179267-\$ or US-20040179266-\$ or US-20040132172-\$ or US-20040130786-\$ or US-20040130761-\$ or US-20040125424-\$ or US-20040075907-\$ or US-20040022475-\$ or US-20030231818-\$ or US-20030215185-\$ or US-20030138207-\$ or US-20030133640-\$ or US-20020141702-\$ or US-20020076154-\$ or US-20020041724-\$ or US-20020041723-\$ or US-20040130760-\$ or US-20040021945-\$ or US-20030219205-\$ or US-20020196994-\$ or US-20020191913-\$ or US-20040181344-\$ or US-20020127565-\$ or US-20040126875-\$ or US-20040038307-\$ or US-20030207258-\$).did. or (US-20030207257-\$ or US-20030207255-\$ or US-20030207254-\$ or US-20030207253-\$ or US-20030113766-\$ or US-20030104390-\$ or US-20030059855-\$ or US-20030032039-\$ or US-20030027328-\$ or US-20030027327-\$ or US-20030017581-\$ or US-20020028451-\$ or US-20010004526-\$ or US-20030049620-\$ or US-20020155507-\$ or US-20040151626-\$ or US-20040132214-\$ or US-20040132205-\$ or US-20030092075-\$ or US-20030026891-\$ or US-20030017580-\$ or US-20020192680-\$ or US-20020168295-\$ or US-20020025534-\$ or US-20040145752-\$ or US-20030068657-\$ or US-20030124599-\$).did. or (US-20040175843-\$ or US-20040175842-\$ or US-20030129654-\$ or US-20030077660-\$ or US-20030162296-\$ or US-20030142713-\$ or US-20030142704-\$ or US-20040053295-\$ or US-20040046128-\$ or US-20030207328-\$ or US-20030157731-\$ or US-20030148542-\$ or US-20030132406-\$ or US-20030082587-\$ or US-20020104762-\$ or US-20020090613-\$ or US-20040063146-\$ or US-20030207256-\$ or US-20020034457-\$ or US-20020022273-\$ or US-20010031503-\$).did. or (WO-9636436-\$).did. or (US-20020127565-\$).did.) and (low\$5 with refract\$ with ind\$4)</p>	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 12:54
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# EAST Search History

S130	29	((US-6785433-\$ or US-5089387-\$ or US-6751387-\$ or US-6694067-\$ or US-6542673-\$ or US-6506342-\$ or US-6096496-\$ or US-6483096-\$ or US-6436651-\$ or US-6434298-\$ or US-6399295-\$ or US-6395558-\$ or US-6350413-\$ or US-6317528-\$ or US-6312961-\$ or US-6289144-\$ or US-6078705-\$ or US-6035082-\$ or US-6005691-\$ or US-5994150-\$ or US-5961924-\$ or US-5832165-\$ or US-5822472-\$ or US-5814565-\$ or US-5745615-\$ or US-5646400-\$).did. or (US-5455178-\$ or US-5446534-\$ or US-5210404-\$ or US-5172250-\$ or US-5113286-\$ or US-5082629-\$ or US-4892385-\$ or US-4815843-\$ or US-4767719-\$ or US-4576439-\$ or US-6591054-\$ or US-5903340-\$ or US-5770455-\$ or US-5565324-\$ or US-6365907-\$ or US-5841555-\$ or US-5627663-\$ or US-5066133-\$ or US-4568141-\$ or US-6586193-\$ or US-6579673-\$ or US-6352828-\$ or US-6280935-\$ or US-6268222-\$ or US-6251691-\$ or US-6235475-\$ or US-6214560-\$).did. or (US-6172218-\$ or US-6172214-\$ or US-6150516-\$ or US-5846719-\$ or US-5352582-\$ or US-5780231-\$ or US-6469785-\$ or US-6087655-\$ or US-5793485-\$ or US-5784157-\$ or US-5608519-\$ or US-5071248-\$ or US-4876208-\$ or US-6093536-\$ or US-5100238-\$ or US-4647544-\$ or US-6437345-\$ or US-5922550-\$ or US-RE33581-\$ or US-5118608-\$ or US-5081012-\$ or US-5003600-\$ or US-4931384-\$ or US-4880752-\$ or US-4023010-\$ or US-4011435-\$ or US-5742432-\$).did. or (US-5729365-\$ or US-5506674-\$ or US-5442433-\$ or US-5394234-\$ or US-5374816-\$ or US-5300764-\$ or US-5291027-\$ or US-6314220-\$ or US-6292282-\$ or US-6221579-\$ or US-6087186-\$ or US-6060256-\$ or US-6036807-\$ or US-5925878-\$ or US-5671308-\$ or US-6346376-\$ or US-5989923-\$ or US-5478527-\$ or US-5156810-\$).did. or (US-20040179267-\$ or US-20040179266-\$ or US-20040132172-\$ or US-20040130786-\$ or US-20040130761-\$ or US-20040125424-\$ or US-20040075907-\$ or US-20040022475-\$ or US-20030231818-\$ or US-20030215185-\$ or US-20030138207-\$ or US-20030133640-\$ or US-20020141702-\$ or US-20020076154-\$ or US-20020041724-\$ or US-20020041723-\$ or US-20040130760-\$ or US-20040021945-\$ or US-20030219205-\$ or US-20020196994-\$ or US-20020191913-\$ or US-20040181344-\$ or US-20020127565-\$ or US-20040126875-\$ or US-20040038307-\$ or US-20030207258-\$).did. or (US-20030207257-\$ or US-20030207255-\$ or US-20030207254-\$ or US-20030207253-\$ or US-20030113766-\$ or US-20030104390-\$ or US-20030059855-\$ or US-20030032039-\$ or US-20030027328-\$ or US-20030027327-\$ or US-20030017581-\$ or US-20020028451-\$ or US-20010004526-\$ or US-20030049620-\$ or US-20020155507-\$ or US-20040151626-\$ or US-20040132214-\$ or US-20040132205-\$ or US-20030092075-\$ or US-20030026891-\$ or US-20030017580-\$ or US-20020192680-\$ or US-20020168295-\$ or US-20020025534-\$ or US-20040145752-\$ or US-20030068657-\$ or US-20030124599-\$).did. or (US-20040175843-\$ or US-20040175842-\$ or US-20030129654-\$ or US-20030077660-\$ or US-20030162296-\$ or US-20030142713-\$ or US-20030142704-\$ or US-20040053295-\$ or US-20040046128-\$ or US-20030207328-\$ or US-20030157731-\$ or US-20030148542-\$ or US-20030132406-\$ or US-20030082587-\$ or US-20020104762-\$ or US-20020090613-\$ or US-20040063146-\$ or US-20030207256-\$ or US-20020034457-\$ or US-20020022273-\$ or US-20010031503-\$).did. or (WO-9636436-\$).did. or (US-20020127565-\$).did.) and (low\$5 with refract\$ with ind\$4 with grating)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/29 12:56
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# EAST Search History

5131	175	<p>(US-6785433-\$ or US-5089387-\$ or US-6751387-\$ or US-6694067-\$ or US-6542673-\$ or US-6506342-\$ or US-6096496-\$ or US-6483096-\$ or US-6436651-\$ or US-6434298-\$ or US-6399295-\$ or US-6395558-\$ or US-6350413-\$ or US-6317528-\$ or US-6312961-\$ or US-6289144-\$ or US-6078705-\$ or US-6035082-\$ or US-6005691-\$ or US-5994150-\$ or US-5961924-\$ or US-5832165-\$ or US-5822472-\$ or US-5814565-\$ or US-5745615-\$ or US-5646400-\$). did. or (US-5455178-\$ or US-5446534-\$ or US-5210404-\$ or US-5172250-\$ or US-5113286-\$ or US-5082629-\$ or US-4892385-\$ or US-4815843-\$ or US-4767719-\$ or US-4576439-\$ or US-6591054-\$ or US-5903340-\$ or US-5770455-\$ or US-5565324-\$ or US-6365907-\$ or US-5841555-\$ or US-5627663-\$ or US-5066133-\$ or US-4568141-\$ or US-6586193-\$ or US-6579673-\$ or US-6352828-\$ or US-6280935-\$ or US-6268222-\$ or US-6251691-\$ or US-6235475-\$ or US-6214560-\$). did. or (US-6172218-\$ or US-6172214-\$ or US-6150516-\$ or US-5846719-\$ or US-5352582-\$ or US-5780231-\$ or US-6469785-\$ or US-6087655-\$ or US-5793485-\$ or US-5784157-\$ or US-5608519-\$ or US-5071248-\$ or US-4876208-\$ or US-6093536-\$ or US-5100238-\$ or US-4647544-\$ or US-6437345-\$ or US-5922550-\$ or US-RE33581-\$ or US-5118608-\$ or US-5081012-\$ or US-5003600-\$ or US-4931384-\$ or US-4880752-\$ or US-4023010-\$ or US-4011435-\$ or US-5742432-\$). did. or (US-5729365-\$ or US-5506674-\$ or US-5442433-\$ or US-5394234-\$ or US-5374816-\$ or US-5300764-\$ or US-5291027-\$ or US-6314220-\$ or US-6292282-\$ or US-6221579-\$ or US-6087186-\$ or US-6060256-\$ or US-6036807-\$ or US-5925878-\$ or US-5671308-\$ or US-6346376-\$ or US-5989923-\$ or US-5478527-\$ or US-5156810-\$). did. or (US-20040179267-\$ or US-20040179266-\$ or US-20040132172-\$ or US-20040130786-\$ or US-20040130761-\$ or US-20040125424-\$ or US-20040075907-\$ or US-20040022475-\$ or US-20030231818-\$ or US-20030215185-\$ or US-20030138207-\$ or US-20030133640-\$ or US-20020141702-\$ or US-20020076154-\$ or US-20020041724-\$ or US-20020041723-\$ or US-20040130760-\$ or US-20040021945-\$ or US-20030219205-\$ or US-20020196994-\$ or US-20020191913-\$ or US-20040181344-\$ or US-20020127565-\$ or US-20040126875-\$ or US-20040038307-\$ or US-20030207258-\$). did. or (US-20030207257-\$ or US-20030207255-\$ or US-20030207254-\$ or US-20030207253-\$ or US-20030113766-\$ or US-20030104390-\$ or US-20030059855-\$ or US-20030032039-\$ or US-20030027328-\$ or US-20030027327-\$ or US-20030017581-\$ or US-20020028451-\$ or US-20010004526-\$ or US-20030049620-\$ or US-20020155507-\$ or US-20040151626-\$ or US-20040132214-\$ or US-20040132205-\$ or US-20030092075-\$ or US-20030026891-\$ or US-20030017580-\$ or US-20020192680-\$ or US-20020168295-\$ or US-20020025534-\$ or US-20040145752-\$ or US-20030068657-\$ or US-20030124599-\$). did. or (US-20040175843-\$ or US-20040175842-\$ or US-20030129654-\$ or US-20030077660-\$ or US-20030162296-\$ or US-20030142713-\$ or US-20030142704-\$ or US-20040053295-\$ or US-20040046128-\$ or US-20030207328-\$ or US-20030157731-\$ or US-20030148542-\$ or US-20030132406-\$ or US-20030082587-\$ or US-20020104762-\$ or US-20020090613-\$ or US-20040063146-\$ or US-20030207256-\$ or US-20020034457-\$ or US-20020022273-\$ or US-20010031503-\$). did. or (WO-9636436-\$). did. or (US-20020127565-\$). did.</p>	US-P6PUB; USPAT; EPO; DERWENT	OR	OFF	2004/09/30 13:13
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# EAST Search History

S132	15	((US-6785433-\$ or US-5089387-\$ or US-6751387-\$ or US-6694067-\$ or US-6542673-\$ or US-6506342-\$ or US-6096496-\$ or US-6483096-\$ or US-6436651-\$ or US-6434298-\$ or US-6399295-\$ or US-6395558-\$ or US-6350413-\$ or US-6317528-\$ or US-6312961-\$ or US-6289144-\$ or US-6078705-\$ or US-6035082-\$ or US-6005691-\$ or US-5994150-\$ or US-5961924-\$ or US-5832165-\$ or US-5822472-\$ or US-5814565-\$ or US-5745615-\$ or US-5646400-\$).did. or (US-5455178-\$ or US-5446534-\$ or US-5210404-\$ or US-5172250-\$ or US-5113286-\$ or US-5082629-\$ or US-4892385-\$ or US-4815843-\$ or US-4767719-\$ or US-4576439-\$ or US-6591054-\$ or US-5903340-\$ or US-5770455-\$ or US-5565324-\$ or US-6365907-\$ or US-5841555-\$ or US-5627663-\$ or US-5066133-\$ or US-4568141-\$ or US-6586193-\$ or US-6579673-\$ or US-6352828-\$ or US-6280935-\$ or US-6268222-\$ or US-6251691-\$ or US-6235475-\$ or US-6214560-\$).did. or (US-6172218-\$ or US-6172214-\$ or US-6150516-\$ or US-5846719-\$ or US-5352582-\$ or US-4880752-\$ or US-6469785-\$ or US-6087655-\$ or US-5793485-\$ or US-5784157-\$ or US-5608519-\$ or US-5071248-\$ or US-4876208-\$ or US-6093536-\$ or US-5100238-\$ or US-4647544-\$ or US-6437345-\$ or US-5922550-\$ or US-RE33581-\$ or US-5118608-\$ or US-5081012-\$ or US-5003600-\$ or US-4931384-\$ or US-4880752-\$ or US-4023010-\$ or US-4011435-\$ or US-5742432-\$).did. or (US-5729365-\$ or US-5506674-\$ or US-5442433-\$ or US-5394234-\$ or US-5374816-\$ or US-5300764-\$ or US-5291027-\$ or US-6314220-\$ or US-6292282-\$ or US-6221579-\$ or US-6087186-\$ or US-6060256-\$ or US-6036807-\$ or US-5925878-\$ or US-5671308-\$ or US-6346376-\$ or US-5989923-\$ or US-5478527-\$ or US-5156810-\$).did. or (US-20040179267-\$ or US-20040179266-\$ or US-20040132172-\$ or US-20040130786-\$ or US-20040130761-\$ or US-20040125424-\$ or US-20040075907-\$ or US-20040022475-\$ or US-20030231818-\$ or US-20030215185-\$ or US-20030138207-\$ or US-20030133640-\$ or US-20020141702-\$ or US-20020076154-\$ or US-20020041724-\$ or US-20020041723-\$ or US-20040130760-\$ or US-20040021945-\$ or US-20030219205-\$ or US-20020196994-\$ or US-20020191913-\$ or US-20040181344-\$ or US-20020127565-\$ or US-20040126875-\$ or US-20040038307-\$ or US-20030207258-\$).did. or (US-20030207257-\$ or US-20030207255-\$ or US-20030207254-\$ or US-20030207253-\$ or US-20030113766-\$ or US-20030104390-\$ or US-20030059855-\$ or US-20030032039-\$ or US-20030027328-\$ or US-20030027327-\$ or US-20030017581-\$ or US-20020028451-\$ or US-20010004526-\$ or US-20030049620-\$ or US-20020155507-\$ or US-20040151626-\$ or US-20040132214-\$ or US-20040132205-\$ or US-20030092075-\$ or US-20030026891-\$ or US-20030017580-\$ or US-20020192680-\$ or US-20020168295-\$ or US-20020025534-\$ or US-20040145752-\$ or US-20030068657-\$ or US-20030124599-\$).did. or (US-20040175843-\$ or US-20040175842-\$ or US-20030129654-\$ or US-20030077660-\$ or US-20030162296-\$ or US-20030142713-\$ or US-20030142704-\$ or US-20040053295-\$ or US-20040046128-\$ or US-20030207328-\$ or US-20030157731-\$ or US-20030148542-\$ or US-20030132406-\$ or US-20030082587-\$ or US-20020104762-\$ or US-20020090613-\$ or US-20040063146-\$ or US-20030207256-\$ or US-20020034457-\$ or US-20020022273-\$ or US-20010031503-\$).did. or (WO-9636436-\$).did. or (US-20020127565-\$).did.) and split and pool	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/30 13:19
S133	394	combinator\$ and (split\$4 near3 pool\$3)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/09/30 13:20
S134	2	wo-9715690-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/01 14:22



## EAST Search History

S135	2	("6035082").PN.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/01 14:22
S136	17793	((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)	US-P6PUB; USPAT; EPO: JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/01 18:08
S137	437	(359/896).CAL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/01 18:09
S138	2198	(359/900).CAL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/01 18:09
S139	1505	(385/147).CAL.S.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/01 18:09
S140	1277	(((((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) or ((359/896).CAL.S.) or ((359/900).CAL.S.) or ((385/147).CAL.S.)) and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))))	US-P6PUB; USPAT; EPO: JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 10:49
S141	445	(((((359/2).CAL.S.) or ((359/566).CAL.S.) or ((359/569).CAL.S.) or ((359/558).CAL.S.) or ((359/571).CAL.S.) or ((359/572).CAL.S.) or ((356/72).CAL.S.) or ((356/73.1).CAL.S.) or ((385/12).CAL.S.) or ((385/128).CAL.S.) or ((385/37).CAL.S.) or ((250/559.04).CAL.S.) or ((250/559.11).CAL.S.) or ((250/559.4).CAL.S.) or ((250/227.14).CAL.S.) or ((250/227.29).CAL.S.) or ((250/566).CAL.S.) or ((250/568).CAL.S.) or ((235/473).CAL.S.) or ((435/4).CAL.S.) or ((435/288.7).CAL.S.)) or ((359/896).CAL.S.) or ((359/900).CAL.S.) or ((385/147).CAL.S.)) and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide)))) and ((cut\$4 or cleav\$3 or break\$3 or slic\$3 or split\$4) with fiber)	US-P6PUB; USPAT; EPO: JPO; DERWENT ; IBM_TDB	OR	ON	2004/10/04 11:02
S142	2	("6,272,886").PN.	US-P6PUB; USPAT; USOCR; EPO: JPO; DERWENT ; IBM_TDB	OR	OFF	2004/10/01 18:29



# EAST Search History

S150	2	("6692031").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/05/04 20:00
S151	646	((((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 09:59
S152	337	((((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and ((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 09:59
S153	193	((((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:00
S154	84	((((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:00
S155	174	((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:00
S156	97	((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:00



## EAST Search History

S157	11	((435/6).C.A.S.) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:00
S158	8	((435/6).C.A.S.) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:01
S159	89	((435/6).C.A.S.) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:01
S160	150	((436/518).C.A.S.) or ((436/524).C.A.S.) or ((436/525).C.A.S.) or ((436/526).C.A.S.) or ((436/527).C.A.S.) or ((436/528).C.A.S.) or ((436/531).C.A.S.)) and grating and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:01
S161	246	((436/518).C.A.S.) or ((436/524).C.A.S.) or ((436/525).C.A.S.) or ((436/526).C.A.S.) or ((436/527).C.A.S.) or ((436/528).C.A.S.) or ((436/531).C.A.S.)) and grating	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:02
S162	485	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) or ((359/896).C.A.S.) or ((359/900).C.A.S.) or ((385/147).C.A.S.)) and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide)))) and ((cut\$4 or cleav\$3 or break\$3 or slic\$3 or split\$4) with fiber)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:02
S163	22799	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) or ((359/896).C.A.S.) or ((359/900).C.A.S.) or ((385/147).C.A.S.)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:03
S164	182	(359/34).C.A.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/05/05 10:03
S165	175	(359/570).C.A.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/05/05 10:03



## EAST Search History

S166	365	(359/577).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/05/05 10:03
S167	1717	(385/31).CAL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/05/05 10:03
S168	24565	S163 or S164 or S165 or S166 or S167	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:03
S169	500	S168 and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((cut\$4 or cleav\$3 or break\$3 or slic\$3 or split\$4) with fiber)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:03
S170	417	S168 and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((phase or amplitude) near4 mask\$3) and (uv or ultraviolet or ultra?violet or (ultra near3 violet))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:03
S171	126	S170 and (drum or cylind\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:03
S172	140	S170 and (drum or cylind\$ or reel or spool\$3)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 10:04
S173	90	((wind\$4 or wound or wrap\$4) near5 (spool or reel or drum or cylind\$)) and ((expos\$ or writ\$ or record\$4) with: ((bragg or diffract\$ or hologra\$) near3 grating)) and (optic\$4 near3 (fiber or waveguide))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 12:51
S174	5	("5066133"   "5104590"   "5388173"   "5499134"   "5641956").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2005/05/05 12:58
S175	11	("3712735"   "4101373"   "4136947"   "4294782"   "4888266"   "5066133"   "5104209"   "5289231"   "5367588"   "5434424"   "5655040").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2005/05/05 13:08
S182	2	jp-11119029-\$.did.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/05/05 13:51



## EAST Search History

S183	90	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:33
S184	113	((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:33
S185	210	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:33
S186	201	((435/6).C.A.S.) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:33
S187	13	((435/6).C.A.S.) and (((bragg) near3 (grating or reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:34
S188	370	((359/2).C.A.S.) or ((359/566).C.A.S.) or ((359/569).C.A.S.) or ((359/558).C.A.S.) or ((359/571).C.A.S.) or ((359/572).C.A.S.) or ((356/72).C.A.S.) or ((356/73.1).C.A.S.) or ((385/12).C.A.S.) or ((385/128).C.A.S.) or ((385/37).C.A.S.) or ((250/559.04).C.A.S.) or ((250/559.11).C.A.S.) or ((250/559.4).C.A.S.) or ((250/227.14).C.A.S.) or ((250/227.29).C.A.S.) or ((250/566).C.A.S.) or ((250/568).C.A.S.) or ((235/473).C.A.S.) or ((435/4).C.A.S.) or ((435/288.7).C.A.S.)) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:34
S189	9	((435/6).C.A.S.) and (((bragg) near3 (reflect\$)) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:35
S190	108	((435/6).C.A.S.) and (((diffract\$ or bragg or hologra\$) near3 grating) same (substrate or (optic\$ near3 (fiber or waveguide)))) and (id or identif\$ or code or information or authent\$) and ((bind\$3 or attach\$4 or connect\$3 or bound\$3) with (chemical or element or species or assay or ion or molecule or atom\$2))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:35



## EAST Search History

S191	717	(((359/2).CALS.) or ((359/566).CALS.) or ((359/569).CALS.) or ((359/558).CALS.) or ((359/571).CALS.) or ((359/572).CALS.) or ((356/72).CALS.) or ((356/73.1).CALS.) or ((385/12).CALS.) or ((385/128).CALS.) or ((385/37).CALS.) or ((250/559.04).CALS.) or ((250/559.11).CALS.) or ((250/559.4).CALS.) or ((250/227.14).CALS.) or ((250/227.29).CALS.) or ((250/566).CALS.) or ((250/568).CALS.) or ((235/473).CALS.) or ((435/4).CALS.) or ((435/288.7).CALS.)) and ((diffract\$ or bragg or hologra\$) near3 grating) and (substrate or (optic\$4 near3 fiber)) and (chemical or species or assay)) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:36
S192	164	(((436/518).CALS.) or ((436/524).CALS.) or ((436/525).CALS.) or ((436/526).CALS.) or ((436/527).CALS.) or ((436/528).CALS.) or ((436/531).CALS.)) and grating) and (refract\$ near3 ind\$4)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:36
S193	273	(((436/518).CALS.) or ((436/524).CALS.) or ((436/525).CALS.) or ((436/526).CALS.) or ((436/527).CALS.) or ((436/528).CALS.) or ((436/531).CALS.)) and grating	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:36
S194	530	(((359/2).CALS.) or ((359/566).CALS.) or ((359/569).CALS.) or ((359/558).CALS.) or ((359/571).CALS.) or ((359/572).CALS.) or ((356/72).CALS.) or ((356/73.1).CALS.) or ((385/12).CALS.) or ((385/128).CALS.) or ((385/37).CALS.) or ((250/559.04).CALS.) or ((250/559.11).CALS.) or ((250/559.4).CALS.) or ((250/227.14).CALS.) or ((250/227.29).CALS.) or ((250/566).CALS.) or ((250/568).CALS.) or ((235/473).CALS.) or ((435/4).CALS.) or ((435/288.7).CALS.)) or ((359/896).CALS.) or ((359/900).CALS.) or ((385/147).CALS.)) and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide)))) and ((cut\$4 or cleav\$3 or break\$3 or slic\$3 or split\$4) with fiber)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:36
S195	24140	(((359/2).CALS.) or ((359/566).CALS.) or ((359/569).CALS.) or ((359/558).CALS.) or ((359/571).CALS.) or ((359/572).CALS.) or ((356/72).CALS.) or ((356/73.1).CALS.) or ((385/12).CALS.) or ((385/128).CALS.) or ((385/37).CALS.) or ((250/559.04).CALS.) or ((250/559.11).CALS.) or ((250/559.4).CALS.) or ((250/227.14).CALS.) or ((250/227.29).CALS.) or ((250/566).CALS.) or ((250/568).CALS.) or ((235/473).CALS.) or ((435/4).CALS.) or ((435/288.7).CALS.)) or ((359/896).CALS.) or ((359/900).CALS.) or ((385/147).CALS.))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:36
S196	190	(359/34).CALS.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/12/17 21:36
S197	179	(359/570).CALS.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/12/17 21:36
S198	380	(359/577).CALS.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/12/17 21:36



## EAST Search History

S199	1884	(385/31).CCL.S.	US-P6PUB; USPAT; USOCR; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/12/17 21:36
S200	26055	S195 or S196 or S197 or S198 or S199	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:36
S201	547	S200 and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((cut\$4 or cleav\$3 or break\$3 or slic\$3 or split\$4) with fiber)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:37
S202	457	S200 and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((phase or amplitude) near4 mask\$3) and (uv or ultraviolet or ultra?violet or (ultra near3 violet))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:37
S203	134	S202 and (drum or cylind\$)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:37
S204	150	S202 and (drum or cylind\$ or reel or spool\$3)	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:37
S205	457	S200 and ((bragg near3 grating) same (optic\$4 near3 (fiber or waveguide))) and ((phase or amplitude) near4 mask\$3) and (uv or ultraviolet or ultra?violet or (ultra near3 violet))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:37
S206	98	((wind\$4 or wound or wrap\$4) near5 (spool or reel or drum or cylind\$)) and ((expos\$ or writ\$ or record\$4) with ((bragg or diffract\$ or hologra\$) near3 grating)) and (optic\$4 near3 (fiber or waveguide))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/17 21:37
S207	965	((base or substrate or fiber) and wind\$4 and (bond\$4 or adhe\$ or glue or epox\$ or attach\$4) and (cut\$5 or slic\$4 or split\$5) and (film or sheet or layer)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/19 11:05
S208	398	((base or substrate or fiber) with (wind\$4 or wrap\$5)) and ((bond\$4 or adhe\$ or glue or epox\$ or attach\$4) with (film or sheet or layer)) and (cut\$5 or slic\$4 or split\$5).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/19 11:13



## EAST Search History

S209	1	S208 and ((writ\$ or record\$4 or expos\$4) with (bragg or grating)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/19 11:08
S210	3	S208 and ((bragg or grating)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/19 11:08
S211	2	(((base or substrate or fiber) with (bragg or grating)) and (wind\$4 or wrap\$5) and ((bond\$4 or adhe\$ or glue or epox\$ or attach\$4) with (film or sheet or layer)) and (cut\$5 or slic\$4 or split\$5)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/19 11:11
S212	1	((bragg or grating) and identif\$ and (wind\$4 or wrap\$5) and ((bond\$4 or adhe\$ or glue or epox\$ or attach\$4) with (film or sheet or layer)) and (cut\$5 or slic\$4 or split\$5)).clm.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/19 11:12
S213	117	(((base or substrate or fiber) with (wind\$4 or wrap\$5)) and ((bond\$4 or adhe\$ or glue or epox\$4 or attach\$4) with (film or sheet or layer)) and (cut\$5 or slic\$4 or split\$5)) and ((writ\$ or record\$4 or expos\$4) with (bragg or grating))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/19 12:06
S214	517	((base or substrate or fiber) with (wind\$4 or wrap\$5)) and (cut\$5 or slic\$4 or split\$5) and ((writ\$ or record\$4 or expos\$4) with (bragg or grating))	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2005/12/19 12:40
S215	2	("5,400,422").PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/12/19 12:40
S216	11	("3712735"   "4101373"   "4136947"   "4294782"   "4888266"   "5066133"   "5104209"   "5289231"   "5367588"   "5434424"   "5655040").PN.	US-P6PUB; USPAT; USOCR	OR	ON	2005/12/19 13:27
S219	47	((("20020039732") or ("20030077038") or ("3891302") or ("3916182") or ("4725110") or ("4807950") or ("5367588") or ("5388173") or ("5559613") or ("5745815") or ("5981166") or ("6096596") or ("6159748") or ("6160656") or ("6174648") or ("6156501") or ("6355432") or ("6403320") or ("6416952") or ("6440667") or ("6544739") or ("6576424") or ("6646243") or ("4537504") or ("5633975")).PN.	US-P6PUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2005/12/19 19:09